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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/955,845	09/17/2001		Shih-Zheng Kuo	JCLA7061	1233
7590 11/29/2005		E	EXAM	XAMINER	
J.C. Patents, Inc.				WORKU, NEGUSSIE	
Suite 250 4 Venture				ART UNIT	PAPER NUMBER
Irvine, CA 92	2618			2626	
				DATE MAILED: 11/29/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/955,845	KUO, SHIH-ZHENG				
	Office Action Summary	Examiner	Art Unit				
		Negussie Worku	2626				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE - Exter after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period preto reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status							
1)[🛛	Responsive to communication(s) filed on 25 S	eptember 2005.					
		action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠							
Applicati	on Papers						
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>01 January 0917</u> is/are. Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	: a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
Priority u	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
2)	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa					

DETAILED ACTION

Priority

- Acknowledgment is made of applicant's claim for foreign priority under 35
 U.S.C. 119(a)-(d). And a receipt is acknowledged of papers submitted under 35
 U.S.C. 119(a)-(d), which papers have been placed of record in the file.
- 2. Applicant's arguments see page 6 and 7, filed on September 21, 2005, with respect to the rejection(s) of claim(s) 1, 2, and 7 have been fully considered and carefully reviewed. Applicant's arguments have been found unpersuasive, and therefore, the rejection has been maintained for the reason that the claimed limitations of the claimed invention still read on the prior art used in the last office action.

However, upon further consideration the subject matter that the applicant argues has been addressed by indicting additional column and lines where the prior art still reads on the claimed limitation. Therefore, a new ground(s) of rejection is made with the same prior Takahashi et al. (USP 5,583,662), and the office action is non-final.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Art Unit: 2626

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 2, and 16-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Takahashi et al. (USP 5,583,662).

With respect to claim 1, Takahashi et al. discloses method of enhancing scan resolution, see (col.10, lines 60-68) suitable for use in a scanner with an optical sensor. (scanner 101 of fig 1) wherein a range that a detecting cell of the optical sensor can detect includes a plurality of original pixels with a predetermined number, and a result of one detection by the detecting cell is called a scanned pixel, (image red by image sensor 101 of fig 1, if appears blurred to obviate the problem the IPU 103 of fig 3, perform pixel by pixel basis, see col.8, lines 40-45) the method comprising; scanning a smooth image region, (scanner 101 of fig 1 and 2, reads a document) wherein the smooth image region includes at least the original pixels with the predetermined number and has a uniform brightness, (the quantities of the light are controlled to a predetermined adequate quantity by feed back control, see col.9, lines 45-60, and (col.10, lines 10-15) to obtain a smooth image data, see (there by preventing the density read out of the document from becoming irregular, see (col.10, lines 1-5); and processing scanned images obtained by scanning a document according to the smooth image data, see (col.7, lines 40-45).

With respect to claim 2, Takahashi et al. discloses the method (as shown in fig 1), wherein the smooth image data is obtained prior to scanning the document, (scanning a document on the horizontal and main scan direction, see col.6, lines 30-35).

With respect to claim 7, Takahashi et al. discloses the method (as shown in fig 1–5), wherein the smooth image data is obtained after scanning the document, (the magnification or a processing which changes the amplification of data on the basis of the quantity of light for illumination and data level, is performed after the document is scanned by scanner 101 of fig 1 or 2, at least in the main scan direction after the, see col.8, lines 10-14).

With respect to claim 16, Takahashi teaches a method (as shown in fig 1 and 2) comprising: scanning a smooth image region with a uniform brightness, (scanner 101 of fig 1, scan document by controlling the light or brightness by light control circuitry in fig 3 and 4, see col.9, lines 45-55); obtaining a standard brightness from the smooth image region, and determining a calculated brightness for at lest a portion of a second image region based at Least in parton the standard brightness, see (col.10, lines 1-7).

With respect to claim 17, Takahashi teaches the method (light control circuitry in fig 3 and 4, see col.9, lines 45-55), wherein the second image region includes at Least a portion with a non-uniform brightness see (col.10, lines 1-7).

With respect to claim 18, Takahashi teaches the method (fig 3 and 4), wherein the scanning of the smooth image region with a uniform brightness is performed prior to scanning the second image region see (col.10, lines 1-7).

With respect to claim 19, Takahashi teaches the method (fig 3 and 4), wherein the scanning of the smooth image region with a uniform brightness is performed prior to scanning the second image region see (col.10, lines 1-7).

Allowable Subject Matter

5. The following is a statement of reasons for the indication of allowable subject matter: Claims 10-15 are allowed.

With respect to claims 10-15, the prior art searched and of the record does not teach or disclose the claimed invention as follows: a method of enhancing scan resolution, suitable for use in a scanner with an optical sensor, wherein a range that a detecting cell of the optical sensor can detect includes a plurality of original pixels with a predetermined number, and a result of one detection by the detecting cell is called a scanned pixel, the method comprising: scanning a smooth image region, wherein the smooth image region includes at least the original pixels with the predetermined number and has a uniform brightness, to obtain a smooth image data; and processing scanned images obtained by scanning a document according to the smooth image data,

further comprising: obtaining a calculated smooth brightness of the original pixels corresponding to scanned pixels of the smooth image data, and using a calculated brightness corresponding to the original pixels with the predetermine number minus one in the smooth image region as a standard to calculate the calculated brightness corresponding to original pixels of the document.

Claims objected to having Allowable Subject Matter

6. Claims 3-6, 8 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

With respect to claims 3-6, the prior art dose not teach or disclose the method, wherein processing the scanned images obtained by scanning the document further comprises: obtaining a calculated smooth brightness of the original pixels corresponding to scanned pixels of the smooth image data; and using a calculated brightness corresponding to the original pixels with the predetermined minus one in the smooth image region as a standard to calculate the calculated brightness corresponding to original pixels of the document.

With respect to claim 8 and 9 the prior art does not teach or disclose the method, wherein obtaining the scanned pixel while scanning the document comprises, obtaining a calculated smooth brightness of the corresponding original pixels from the scanned pixels of the smooth image data; and using a corresponding calculated brightness of the original pixel with the predetermined number minus one in the smooth image region as

the document.

Remarks/response to the applicant's arguments

6. Applicant's remarks and arguments filed on September 21, 2005, in response to the Office action dated March 18, 2005 have been considered. The applicant indicated that the new independent claim 10 based on the limitation from dependent claim 3, that originally objected to having allowable subject matter, and therefore, claims 10-13 have been allowed. Claims 3-6, 8 and 9 have been still objected to having allowable subject matter would be allowable if rewritten in independent form.

With respect to claim 1, 2 and 7 applicant's arguments are not found persuasive for the reason the prior art still read on the claimed limitation as indicated in the office action indicated above.

Furthermore, Examiner dors not see the difference between the claimed limitation of claim 1, and the prior art. Applicant's arguments discussed on page 6 of last paragraph indicate that the "uniform brightness" of "image region" is not disclosed in the prior art.

Examiner respectfully disagree with applicant, because the limitation is broad enough to read on the prior art's teaching in that the image source shown on fig 3 and 4, and discussed on column 9, lines 45-55. Specifically, the quantity of light issuing from the lamp which change with ambient temperature, so that quantities of light or brightness are controlled to a predetermined adequate quantity, there by preventing the

density/resolution read out of the document from becoming irregular see also col.10, lines 1-5.

Therefore, claims 1, 2, 7 and 16-19 are rejected for the reasons discussed above.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Negussie Worku whose telephone number is 305-5441. The examiner can normally be reached on 7am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Williams can be reached on 703-305-4863. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Negussie Worku 11/16/05 MARKWALLERSON PRIMARY EXAMINER